

jc931 U.S. PRO  
09/698705  
10/27/06

In re Application of Brigitte Devaux et al. Serial No.: To be assigned Filed: October 27, 2000 For: Anti-Tumor Antibody Compositions and Methods of Use	Group Art Unit: To be assigned Examiner: To be assigned
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**Box Patent Applications**  
**Assistant Commissioner of Patents**  
**Washington, D.C. 20231**

I hereby state that the Sequence Listing submitted herewith is submitted in paper copy and a computer-readable diskette, and that the information recorded in computer readable form is identical to the written sequence listing.

Date: October 27, 2000

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# Sequence Listing

<110> Devaux, B.  
Keller, G.  
Koeppen, H.  
Lasky, L.

<120> Anti-Tumor Antibody Compositions and Methods of Use

<130> P1777R1

<141> 2000-10-27

<150> US 60/162,558

<151> 1999-10-29

<150> US 60/182,872

<151> 2000-02-16

<160> 25

<210> 1

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1

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Gln	Pro	Gly	Thr	Ala	Leu	Leu	Cys	Tyr	Ser	Cys	Lys	Ala	Gln	Val
				20					25					30

Ser	Asn	Glu	Asp	Cys	Leu	Gln	Val	Glu	Asn	Cys	Thr	Gln	Leu	Gly
				35					40					45

Glu	Gln	Cys	Trp	Thr	Ala	Arg	Ile	Arg	Ala	Val	Gly	Leu	Leu	Thr
				50					55					60

Val	Ile	Ser	Lys	Gly	Cys	Ser	Leu	Asn	Cys	Val	Asp	Asp	Ser	Gln
				65					70					75

Asp	Tyr	Tyr	Val	Gly	Lys	Lys	Asn	Ile	Thr	Cys	Cys	Asp	Thr	Asp
				80					85					90

Leu	Cys	Asn	Ala	Ser	Gly	Ala	His	Ala	Leu	Gln	Pro	Ala	Ala	Ala
				95					100					105

Ile	Leu	Ala	Leu	Leu	Pro	Ala	Leu	Gly	Leu	Leu	Leu	Trp	Gly	Pro
				110					115					120

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Gly Gln Leu

<210> 2

<211> 372

<212> DNA

<213> Homo sapiens

<400> 2

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ttg gcc ctg cag cca ggc act gcc ctg ctg tgc tac tcc 75  
Leu Ala Leu Gln Pro Gly Thr Ala Leu Leu Cys Tyr Ser  
15 20 25

tgc aaa gcc cag gtg agc aac gag gac tgc ctg cag gtg 114  
Cys Lys Ala Gln Val Ser Asn Glu Asp Cys Leu Gln Val  
30 35

gag aac tgc acc cag ctg ggg gag cag tgc tgg acc gcg 153  
Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys Trp Thr Ala  
40 45 50

cgc atc cgc gca gtt ggc ctc ctg acc gtc atc agc aaa 192  
Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
55 60

ggc tgc agc ttg aac tgc gtg gat gac tca cag gac tac 231  
Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr  
65 70 75

tac gtg ggc aag aag aac atc acg tgc tgt gac acc gac 270  
Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp  
80 85 90

ttg tgc aac gcc agc ggg gcc cat gcc ctg cag ccg gct 309  
Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala  
95 100

gcc gcc atc ctt gcg ctg ctc cct gca ctc ggc ctg ctg 348  
Ala Ala Ile Leu Ala Leu Leu Pro Ala Leu Gly Leu Leu  
105 110 115

ctc tgg gga ccc ggc cag cta tag 372  
Leu Trp Gly Pro Gly Gln Leu Xaa  
120 124

<210> 3

<211> 96

<212> PRT  
 <213> Mus musculus

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 1 5 10 15  
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 20 25 30  
 Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly  
 35 40 45  
 Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Val Phe Thr  
 50 55 60  
 Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr  
 65 70 75  
 Cys Met Gln His Leu Glu Ser Pro Phe Thr Phe Gly Ser Gly Thr  
 80 85 90  
 Lys Leu Glu Ile Lys Arg  
 95

<210> 4  
 <211> 115  
 <212> PRT  
 <213> Mus Musculus  
 <220>  
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 <222> 46-48, 50-52  
 <223> unknown amino acid

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 20 25 30  
 Arg Pro Gly Arg Gly Leu Glu Trp Ile Gly Arg Ile Asp Pro Ser  
 35 40 45  
 Xaa Xaa Xaa Thr Xaa Xaa Xaa Gln Thr Phe Lys Asp Lys Ala Thr  
 50 55 60  
 Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Ile Gln Leu Ser  
 65 70 75

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Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Ala Ile Thr  
80 85 90

Ala Ala Ile Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Thr  
95 100 105

Val Ser Ser Ala Lys Thr Thr Gly Pro Ser  
110 115

<210> 5  
<211> 113  
<212> PRT  
<213> Mus musculus

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Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu  
20 25 30

His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro  
35 40 45

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala  
50 55 60

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala  
65 70 75

Phe Thr Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val  
80 85 90

Tyr Tyr Cys Leu Gln His Leu Glu Tyr Pro Tyr Thr Phe Gly Gly  
95 100 105

Gly Thr Lys Leu Glu Leu Lys Arg  
110

<210> 6  
<211> 124  
<212> PRT  
<213> Mus musculus

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1 5 10 15

Ala Pro Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr  
20 25 30

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Asn Tyr Trp Leu Asn Trp Val Lys Gln Arg Pro Gly Arg Gly Leu  
 35 40 45

Glu Trp Ile Gly Arg Ile Asp Pro Ser Asp Ser Glu Ile His Tyr  
 50 55 60

Asp Gln Lys Phe Lys Asp Lys Ala Thr Leu Thr Val Asp Lys Ser  
 65 70 75

Ser Ser Thr Ala Tyr Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp  
 80 85 90

Ser Ala Val Tyr Tyr Cys Ala Leu Thr Gly Ile Tyr Ala Met Ala  
 95 100 105

Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Lys Thr  
 110 115 120

Thr Gly Pro Ser

<210> 7

<211> 113

<212> PRT

<213> Mus musculus

<400> 7

Asp Val Val Met Thr Gln Thr Pro Leu Thr Leu Ser Val Thr Ile  
 1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu  
 20 25 30

Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro  
 35 40 45

Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Thr Leu Asp  
 50 55 60

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp  
 65 70 75

Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val  
 80 85 90

Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly  
 95 100 105

Gly Thr Lys Leu Glu Ile Lys Arg  
 110

00698705-102700

<210> 8  
 <211> 121  
 <212> PRT  
 <213> Mus musculus

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 20 25 30  
 Gly Tyr Tyr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu  
 35 40 45  
 Glu Trp Ile Gly Arg Val Asp Pro Asn Asn Gly Phe Thr Ser Tyr  
 50 55 60  
 Asn Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser  
 65 70 75  
 Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp  
 80 85 90  
 Ser Ala Val Tyr Tyr Cys Val Gly Asn Phe Phe Asp Ser Trp Gly  
 95 100 105  
 Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Gly Pro  
 110 115 120  
 Ser

<210> 9  
 <211> 118  
 <212> PRT  
 <213> Mus musculus

<400> 9  
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 1 5 10 15  
 Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Trp Met Asn Trp  
 20 25 30  
 Val Lys Gln Arg Pro Gly Arg Gly Leu Glu Trp Ile Gly Arg Ile  
 35 40 45  
 Asp Pro Ser Asp Ser Glu Thr Gln Tyr Asn Gln Thr Phe Lys Asp  
 50 55 60

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Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr Ile  
65 70 75

Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys  
80 85 90

Ala Ile Thr Ala Ala Ile Ala Met Asp Tyr Trp Gly Gln Gly Thr  
95 100 105

Ser Val Thr Val Ser Ser Ala Lys Thr Thr Gly Pro Ser  
110 115

<210> 10

<211> 238

<212> PRT

<213> Artificial sequence

<220>

<223> sequence is chimeric mouse/human

<400> 10

Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr  
1 5 10 15

Gly Val His Ser Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val  
20 25 30

Pro Val Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser  
35 40 45

Lys Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe  
50 55 60

Leu Gln Arg Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met  
65 70 75

Ser Asn Leu Ala Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly  
80 85 90

Ser Gly Thr Ala Phe Thr Leu Arg Ile Ser Arg Val Glu Ala Glu  
95 100 105

Asp Val Gly Val Tyr Tyr Cys Leu Gln His Leu Glu Tyr Pro Tyr  
110 115 120

Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu Lys Arg Thr Val Ala  
125 130 135

Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys  
140 145 150

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**THE** **NEW** **YORK** **PUBLIC** **LIBRARY**

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly  
380 385 390

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln  
395 400 405

Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp  
410 415 420

Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg  
425 430 435

Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala  
440 445 450

Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly  
455 460 465

Lys

<210> 12

<211> 218

<212> PRT

<213> Artificial sequence

<220>

<223> sequence is chimeric mouse/human

<400> 12

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20 25 30

Asp Ser Asp Gly Lys Thr Tyr Leu Asn Trp Leu Leu Gln Arg Pro  
35 40 45

Gly Gln Ser Pro Lys Arg Leu Ile Tyr Leu Val Ser Thr Leu Asp  
50 55 60

Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp  
65 70 75

Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Val  
80 85 90

Tyr Tyr Cys Trp Gln Gly Thr His Phe Pro Arg Thr Phe Gly Gly  
95 100 105

Gly Thr Lys Leu Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val  
 110 115 120

Phe Ile Phe Pro Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala  
 125 130 135

Ser Val Val Cys Leu Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys  
 140 145 150

Val Gln Trp Lys Val Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln  
 155 160 165

Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu  
 170 175 180

Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu Lys His Lys  
 185 190 195

Val Tyr Ala Cys Glu Thr His Gln Gly Leu Ser Ser Pro Val Thr  
 200 205 210

Lys Ser Phe Asn Arg Gly Glu Cys  
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<210> 13

<211> 222

<212> PRT

<213> Artificial sequence

<220>

<223> sequence is chimeric mouse/human

<400> 13

Glu Val Gln Leu Gln Gln Ser Gly Pro Asp Leu Glu Lys Pro Gly  
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Ala Ser Val Lys Ile Ser Cys Lys Pro Ser Gly Asn Ser Phe Thr  
 20 25 30

Gly Tyr Tyr Ile His Trp Val Lys Gln Ser His Gly Lys Ser Leu  
 35 40 45

Glu Trp Ile Gly Arg Val Asp Pro Asn Asn Gly Phe Thr Ser Tyr  
 50 55 60

Asn Gln Lys Phe Lys Gly Lys Ala Ile Leu Thr Val Asp Lys Ser  
 65 70 75

Ser Ser Thr Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp  
 80 85 90

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Ser Ala Val Tyr Tyr Cys Val Gly Asn Phe Phe Asp Ser Trp Gly  
 95 100 105

Gln Gly Thr Thr Leu Thr Val Ser Ser Ala Lys Thr Thr Gly Pro  
 110 115 120

Ser Val Phe Pro Leu Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly  
 125 130 135

Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro  
 140 145 150

Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser Gly Val His  
 155 160 165

Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser  
 170 175 180

Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr  
 185 190 195

Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 200 205 210

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr  
 215 220

<210> 14  
 <211> 20  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is a primer  
  
 <400> 14  
 aaggctgtgc tgcttgccct 20  
  
 <210> 15  
 <211> 20  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <223> Sequence is a primer  
  
 <400> 15  
 gaggcgcaca aaggcctggg 20  
  
 <210> 16  
 <211> 372

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[illegible]

<400> 16

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		15					20					25	

tgc aag gcc cag gtg agc aac gag gac tgc ctg aat gtg 114  
Cys Lys Ala Gln Val Ser Asn Glu Asp Cys Leu Asn Val  
30 35

gag aac tgc acg cag ccg gag gag cag tgc tgg acc gag 153  
Glu Asn Cys Thr Gln Pro Glu Glu Gln Cys Trp Thr Glu  
40 45 50

cgc atc cgc gcc gtg ggc ctc ctg acc gtc atc agc aaa 192  
Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
55 60

ggc tgc agc tca aac tgc gtg gat gac tca cag gac tac 231  
Gly Cys Ser Ser Asn Cys Val Asp Asp Ser Gln Asp Tyr  
65 70 75

tac gtg ggc aag aag aac atc acc tgc tgt gac acc gac 270  
 Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp  
 80 85 90

ttg tgc aac gcc agc ggg gcc cat gca ctg cag ccg gct 309  
Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala  
95 100

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gct gcc atc ctg gca ctg ctc cct gca ctc agt ctg ctg 348
Ala Ala Ile Leu Ala Leu Leu Pro Ala Leu Ser Leu Leu
      105              110              115
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Leu Trp Ser Pro Arg Gln Leu  
120 123

<211> 123

<213> Macaca fascicularis

<400> 17

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Ser Asn Glu Asp Cys Leu Asn Val Glu Asn Cys Thr Gln Pro Glu	35	40	45
Glu Gln Cys Trp Thr Glu Arg Ile Arg Ala Val Gly Leu Leu Thr	50	55	60
Val Ile Ser Lys Gly Cys Ser Ser Asn Cys Val Asp Asp Ser Gln	65	70	75
Asp Tyr Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp	80	85	90
Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala Ala Ala	95	100	105
Ile Leu Ala Leu Leu Pro Ala Leu Ser Leu Leu Leu Trp Ser Pro	110	115	120
Arg Gln Leu			

<210> 18  
 <211> 372  
 <212> DNA  
 <213> Macaca fascicularis

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 Leu Ala Leu Gln Pro Gly Thr Ala Leu Leu Cys Tyr Ser  
 15 20 25  
  
 tgc aag gcc cag gtg agc aac gag gac tgc ctg aat gtg 114  
 Cys Lys Ala Gln Val Ser Asn Glu Asp Cys Leu Asn Val  
 30 35  
  
 gag aac tgc acg cag ccg gag gag cag tgc tgg acc gag 153  
 Glu Asn Cys Thr Gln Pro Glu Glu Gln Cys Trp Thr Glu  
 40 45 50  
  
 cgc atc cgc gcc gtg ggc ctc ctg acc gtc atc agc aaa 192  
 Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
 55 60

ggc tgc agc tca aac tgc gtg gat gac tca cag gac tac 231  
 Gly Cys Ser Ser Asn Cys Val Asp Asp Ser Gln Asp Tyr  
 65 70 75

tac gtg ggc aag aag aac atc acc tgc tgt gac acc gac 270  
 Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp  
 80 85 90

ttg tgc aac gcc agc ggg gcc cat gcc ctg cag cca gct 309  
 Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala  
 95 100

gct gcc atc ctg gca ctg ctc cct gca ctc agc ctg ctg 348  
 Ala Ala Ile Leu Ala Leu Leu Pro Ala Leu Ser Leu Leu  
 105 110 115

ctt tgg ggc ccc aga cag ctg t ag 372  
 Leu Trp Gly Pro Arg Gln Leu  
 120 123

<210> 19  
 <211> 123  
 <212> PRT  
 <213> Macaca fascicularis

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 Ser Asn Glu Asp Cys Leu Asn Val Glu Asn Cys Thr Gln Pro Glu  
 35 40 45  
 Glu Gln Cys Trp Thr Glu Arg Ile Arg Ala Val Gly Leu Leu Thr  
 50 55 60  
 Val Ile Ser Lys Gly Cys Ser Ser Asn Cys Val Asp Asp Ser Gln  
 65 70 75  
 Asp Tyr Tyr Val Gly Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp  
 80 85 90  
 Leu Cys Asn Ala Ser Gly Ala His Ala Leu Gln Pro Ala Ala Ala  
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 Ile Leu Ala Leu Leu Pro Ala Leu Ser Leu Leu Leu Trp Gly Pro  
 110 115 120

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**069708-1**

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<210> 24
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<212> DNA
<213> Artificial sequence
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<223> Sequence is a PCR primer

<400> 24

acccacgcgt ccggctgctt 20

<210> 25

<211> 21

<212> DNA

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**<220>**

<223> Sequence is a PCR primer

<400> 25

cgggggacac cacggaccag a 21

090505: 10200